

s/n: 10/716,500
date: 6/21/06

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| MORII-YOSHIHIRO\$9.in. or FUJITA-SHIGERU\$9.in. or KOBAYASHI-SHIGEO\$9.in. or TSUYUKI-TATSUYA\$9.in. or TAKEMOTO-226 HIROSHI\$9.in. or ANDO-JUN\$9.in. | US-PGPUB; USPAT; IBM_TDB | 6/21/06 9:47 |
| 64 1 and (lens or optic\$4) ("4496416" "5267088" "5274732" "5412509" "5465126" 11 "5508851").PN. OR ("5715099").URPN. ("5715099" "5903401" "5933248" "5936239" "6073844" 7 "6157467" "6239885").PN. OR ("7023588").URPN. ((359/819,811,822,809) or (396/52) or (362/455) or (353/100) or 6448 (358/482,483,474)).CCLS. | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR | 6/21/06 9:47 6/21/06 9:48 |
| 2028 (359/819,811).CCLS. | US-PGPUB; USPAT; USOCR US-PGPUB; USPAT; USOCR; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB | 6/21/06 9:50 6/21/06 10:46 6/21/06 10:33 |
| 45409 (image with scan\$4) and (light or illumination) and focus\$4 | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | 6/21/06 10:39 6/21/06 10:41 |
| 1141 5 and 7 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | 6/21/06 10:41 |
| 1071 8 not 6 ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 2352 (353/100)).CCLS. | US-PGPUB; USPAT; USOCR; IBM_TDB | 6/21/06 10:13 |
| 36 lens with mount and (L adj bracket) imag\$4 same (lens or optic\$4) same ((charge\$2 adj couple\$2) or ccd or photo\$2detector or photo\$2sensor or detectoor or sensor or 134925 transceiver or receiver) | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | 6/21/06 9:45 6/20/06 18:46 |
| 391 S114 and S115 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | 6/20/06 18:46 |
| ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 4898 (353/100)).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | 6/20/06 18:44 |
| ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 3996 (353/100)).CCLS. | US-PGPUB; USPAT; USOCR; IBM_TDB | 6/20/06 18:43 |
| ("4493573" "4795284" "4846595" "5358165" "6000784" "6127012" "6217684" "6224709" "6424434").PN. OR 11 ("6693751").URPN. | US-PGPUB; USPAT; USOCR US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | 6/20/06 18:38 6/20/06 18:28 |
| 2 ("6693751").PN. | | |
| 2187 l-bracket l\$bracket or (l adj bracket) | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 346319 bracket (intermediate with member with (adhesive epoxy glue adher\$4)) and 799 substrate (intermediate with member with (adhesive epoxy glue adher\$4)) and 357 substrate and parallel (intermediate with member with (adhesive epoxy glue adher\$4)) and 154 substrate and parallel and optical (print with head) and (((circuit or control) with board) with (hole or 362 aperture)) | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 6/20/06 18:15 6/20/06 18:15 6/20/06 18:15 6/20/06 18:15 |

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| 1888 (print with head).ti. | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 639 ((inkjet or (ink with jet) or ink\$2jet) with print with head).ti. | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| ((inkjet or (ink with jet) or ink\$2jet) with print with head).ti.) and | | |
| 342 substrate | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 707 ((print with head).ti.) and substrate | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 40 ((print with head).ti.) and (substrate near2 (hole or aperture)) | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 1208 solid with state with image with input | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 516 (solid with state with image with input) and substrate | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 1 6424434.URPN. | USPAT | 6/20/06 18:15 |
| 1 6424434.URPN. | USPAT | 6/20/06 18:15 |
| 2460 (358/474).CCLS. | US-PGPUB; USPAT; USOCR; IBM_TDB | 6/20/06 18:15 |
| 2757 (358/474,1.5,315,255,432,433).CCLS. | US-PGPUB; USPAT; USOCR; IBM_TDB | 6/20/06 18:15 |
| ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or | US-PGPUB; USPAT; USOCR; | |
| 3996 (353/100)).CCLS. | IBM_TDB | 6/20/06 18:15 |
| 2757 (358/474,1.5,315,255,432,433).CCLS. | US-PGPUB; USPAT; USOCR; IBM_TDB | 6/20/06 18:15 |
| ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or | | |
| 5854 (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.) | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or | | |
| (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and | | |
| 499 (objective adj lens) | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or | | |
| (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and | | |
| 166 (objective adj lens)) and adhesive | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or | | |
| (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and | | |
| 166 (objective adj lens)) and adhesive | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or | | |
| (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and | | |
| 115 (objective adj lens)) and adhesive) and parallel | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 1 ("6224709").PN. | US-PGPUB; USPAT; USOCR; IBM_TDB | 6/20/06 18:15 |
| 1 (solid with state with image with input with unit).ti. | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 1 4555169.PN. | USPAT | 6/20/06 18:15 |
| 1 4555169.PN. | USPAT | 6/20/06 18:15 |
| 1 ("6224709").PN. | US-PGPUB; USPAT; USOCR; IBM_TDB | 6/20/06 18:15 |
| 92 lens with mount and (L adj bracket) | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| ("5528118" "5623853" "5668672" "5689377" "5874820" | | |
| 5 "2002/0080339").PN. | USPAT | 6/20/06 18:15 |
| 12 (l-bracket l\$bracket or (l adj bracket)) with adhesive | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 2 (("5257138") or ("6224709")).PN. | US-PGPUB; USPAT; USOCR; IBM_TDB | 6/20/06 18:15 |
| ((print with head) and (((circuit or control) with board) with (hole or | | |
| 33 aperture))) and (intermediate with member) | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 98 (print with head) and (ccd with (hole or aperture)) | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |

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| (substrate with (aperture or hole) with align\$5 with (optical near ("4011009" "4736132" "4856863" "4900119" "5078479" "5212743" "5311360" "5459610" "5500761" "5654819" "5659418" "5661592" "5701193" "5745271" "5751469" "5825528" "5835255" "5841579" "5847859" "5850492" "5870221" "5914804" "5943155" "5943158" "5943454" "5949571" "5974207" "5986796" "6002513" "6061166" 15 "6172796" "6268952").PN.) axis)) and print | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 11 5343332.URPN. ("4016504" "4034949" "4059343" "4118109" "4319807" "4623225" "4764983" "4768184" "4819096" "4822974" "4850686" "4948233" "4997250" "5077905" "5084783" 16 "5155633").PN. (((inkjet or (ink with jet) or ink\$2jet) with print with head).ti.) and | USPAT | 6/20/06 18:15 |
| 25 (substrate near2 (hole or aperture)) (solid with state with image with input) and (substrate near2 (hole or 56 aperture)) ((solid with state with image with input) and (substrate with (hole or 55 aperture))) and lens | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 87 (image with scan\$4 with unit).ti. 2 ("5936783" "6128120").PN. 4 ("4126386" "4259004" "4861983" "5067782").PN. 13 4555169.URPN. 7 5136326.URPN. | US-PGPUB; USPAT; IBM_TDB USPAT USPAT USPAT USPAT | 6/20/06 18:15 6/20/06 18:15 6/20/06 18:15 6/20/06 18:15 6/20/06 18:15 |
| 3 (("6224709") or ("6424434") or ("5136326")).PN. ((((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and 72 (objective adj lens)) and adhesive) and parallel) and perpendicular | US-PGPUB; USPAT; USOCR; IBM_TDB | 6/20/06 18:15 |
| 109 (print with head) same board same align\$4 (solid with state with image with input) and (substrate with (hole or 106 aperture)) | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 6/20/06 18:15 |
| 149 (solid with state with image with input with unit) and lens substrate with (aperture or hole) with align\$5 with (optical near ("4011009" "4736132" "4856863" "4900119" "5078479" "5212743" "5311360" "5459610" "5500761" "5654819" "5659418" "5661592" "5701193" "5745271" "5751469" "5825528" "5835255" "5841579" "5847859" "5850492" "5870221" "5914804" "5943155" "5943158" "5943454" "5949571" "5974207" "5986796" "6002513" "6061166" 235 "6172796" "6268952").PN.) axis) | US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 |
| 217 solid with state with image with input with unit ((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and 117 (objective adj lens)) and adhesive ((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and 117 (objective adj lens)) and adhesive ((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and 81 (objective adj lens)) and adhesive) and parallel | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB | 6/20/06 18:15 6/20/06 18:15 9/15/03 14:45 9/15/03 14:45 9/15/03 14:45 |

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| 53 | (((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and (objective adj lens)) and adhesive) and parallel) and perpendicular | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB | 9/15/03 14:45 9/15/03 14:42 |
| 1590 | (358/474,1.5,315,255,432,433).CCLS. (((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and 368 (objective adj lens) | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB | 9/15/03 14:36 9/15/03 14:35 |
| 1483 | (358/474,1.5,315,255,432,433).CCLS. ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 2442 (353/100)).CCLS. (((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 4029 (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.) (solid with state with image with input) and ((358/474, "1.5", "315", 11 "255", "432", "433").CCLS.) | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB | 9/15/03 14:35 9/15/03 14:35 |
| 3 | ("6224709") or ("6424434") or ("5136326")).PN. | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB | 5/9/03 14:35 5/9/03 14:34 |
| 1294 | (358/474).CCLS. | US-PGPUB; USPAT; IBM_TDB | 5/9/03 14:34 |
| 41 | (image with scan\$4 with unit).ti. | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB | 5/9/03 13:49 5/9/03 13:49 |
| 1 | ("6224709").PN. | USPAT | 5/9/03 13:40 |
| 1 | 4555169.PN. | USPAT | 5/9/03 13:36 |
| 6 | 5136326.URPN. | USPAT | 5/9/03 13:35 |
| 12 | 4555169.URPN. | USPAT | 5/9/03 13:34 |
| 0 | 6424434.URPN. | USPAT | 5/9/03 13:34 |
| 0 | 6424434.URPN. | USPAT | 5/9/03 13:34 |
| 1 | 4555169.PN. | USPAT | 5/9/03 13:30 |
| 4 | ("4126386" "4259004" "4861983" "5067782").PN. | USPAT | 5/9/03 13:29 |
| 2 | ("5936783" "6128120").PN. | USPAT | 5/9/03 11:14 |
| 1 | (solid with state with image with input with unit).ti. | US-PGPUB; USPAT; IBM_TDB | 5/9/03 11:06 |
| 119 | solid with state with image with input with unit | US-PGPUB; USPAT; IBM_TDB | 5/9/03 11:04 |
| 80 | (solid with state with image with input with unit) and lens | US-PGPUB; USPAT; IBM_TDB | 5/9/03 10:57 |
| 774 | solid with state with image with input ((solid with state with image with input) and (substrate with (hole or 22 aperture))) and lens (solid with state with image with input) and (substrate near2 (hole or 26 aperture)) | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB | 5/9/03 10:46 5/9/03 10:44 |
| 302 | (solid with state with image with input) and substrate (solid with state with image with input) and (substrate with (hole or 59 aperture)) (((inkjet or (ink with jet) or ink\$2jet) with print with head).ti.) and 15 (substrate near2 (hole or aperture)) | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB | 5/9/03 10:43 5/9/03 10:38 |
| 27 | ((print with head).ti.) and (substrate near2 (hole or aperture)) (((inkjet or (ink with jet) or ink\$2jet) with print with head).ti.) and 236 substrate | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB | 5/9/03 10:35 5/9/03 10:34 |
| 520 | ((print with head).ti.) and substrate | US-PGPUB; USPAT; IBM_TDB | 5/9/03 10:34 |

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| 450 ((inkjet or (ink with jet) or ink\$2jet) with print with head).ti. | US-PGPUB; USPAT; IBM_TDB | 5/9/03 10:27 |
| 1475 (print with head).ti. | US-PGPUB; USPAT; IBM_TDB | 5/9/03 10:26 |
| 72 (print with head) same board same align\$4 substrate with (aperture or hole) with align\$5 with (optical near (("4011009" "4736132" "4856863" "4900119" "5078479" "5212743" "5311360" "5459610" "5500761" "5654819" "5659418" "5661592" "5701193" "5745271" "5751469" "5825528" "5835255" "5841579" "5847859" "5850492" "5870221" "5914804" "5943155" "5943158" "5943454" "5949571" "5974207" "5986796" "6002513" "6061166" 132 "6172796" "6268952").PN.) axis) ("4016504" "4034949" "4059343" "4118109" "4319807" "4623225" "4764983" "4768184" "4819096" "4822974" "4850686" "4948233" "4997250" "5077905" "5084783" 16 "5155633").PN. 9 5343332.URPN. (substrate with (aperture or hole) with align\$5 with (optical near (("4011009" "4736132" "4856863" "4900119" "5078479" "5212743" "5311360" "5459610" "5500761" "5654819" "5659418" "5661592" "5701193" "5745271" "5751469" "5825528" "5835255" "5841579" "5847859" "5850492" "5870221" "5914804" "5943155" "5943158" "5943454" "5949571" "5974207" "5986796" "6002513" "6061166" 8 "6172796" "6268952").PN.) axis)) and print | US-PGPUB; USPAT; IBM_TDB | 5/8/03 19:27 |
| 66 (print with head) and (ccd with (hole or aperture)) (print with head) and (((circuit or control) with board) with (hole or 232 aperture)) ((print with head) and (((circuit or control) with board) with (hole or 27 aperture))) and (intermediate with member) | USPAT USPAT | 5/8/03 19:09 5/8/03 19:06 |
| 2 (("5257138") or ("6224709")).PN. (intermediate with member with (adhesive epoxy glue adher\$4)) and 87 substrate and parallel and optical (intermediate with member with (adhesive epoxy glue adher\$4)) and 219 substrate and parallel (intermediate with member with (adhesive epoxy glue adher\$4)) and 511 substrate | US-PGPUB; USPAT; IBM_TDB | 5/8/03 19:00 |
| 1 ("6224709").PN. | US-PGPUB; USPAT; IBM_TDB | 5/8/03 18:58 |
| 6 (l-bracket l\$bracket or (l adj bracket)) with adhesive | US-PGPUB; USPAT; IBM_TDB | 5/8/03 18:54 |
| 1501 l-bracket l\$bracket or (l adj bracket) ("5528118" "5623853" "5668672" "5689377" "5874820" 5 "2002/0080339").PN. | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB | 5/8/03 18:40 5/8/03 18:40 5/8/03 18:37 |
| 269106 bracket (((359/819, "811", "822", "813", "818", "820", "821") or (396/526) or 154 (362/455) or (353/100)).CCLS.) and bracket (((359/819, "811", "822", "813", "818", "820", "821") or (396/526) or (362/455) or (353/100)).CCLS.) and (l-bracket l\$bracket or (l adj 2 bracket)) | US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB | 4/17/03 14:21 4/17/03 14:20 4/17/03 14:19 4/17/03 14:16 |
| | US-PGPUB; USPAT; IBM_TDB | 4/17/03 14:14 |
| | US-PGPUB; USPAT; IBM_TDB | 4/17/03 13:40 |
| | USPAT | 4/17/03 13:39 |
| | US-PGPUB; USPAT; IBM_TDB | 4/17/03 13:34 |
| | US-PGPUB; USPAT; IBM_TDB | 4/17/03 13:34 |
| | US-PGPUB; USPAT; IBM_TDB | 4/17/03 13:33 |